

Name: _____ Period: _____ Date _____

Total Points
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Find the next two terms of each sequence:

1. **6, 9, 12, 15, 18,** _____, _____

Points
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Fill in the circles for the following sequence.

2. **-3 -2 0 3 7 12**

First Difference

Second Difference

Points
____ of 3

Fill in all the necessary circles to solve for the sequence:

3. _____ **+3** **-12** _____

Constant Difference

Points
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Evaluate each expression as an equation when the value of the variable is 1, 2, and 3.

4. $3x + 4$

x	$y = 3(x) + 4$	y
1		
2		
3		

4b. True or False: The dependent variable **y** depends on the independent variable **x**.

5. $5x - 2$

x	1	2	3
$y = 5x - 2$			
y			

5b. True or False: An equation connects two expressions with an equal sign.

Points
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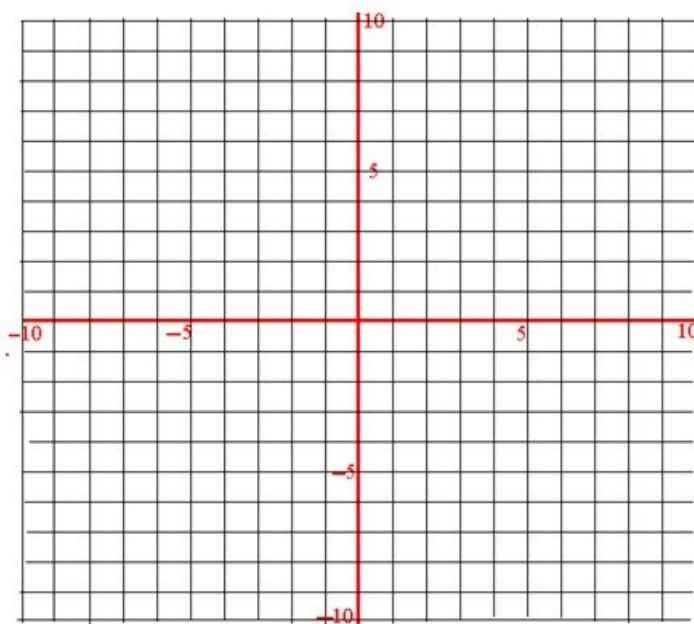
Use order of operations to solve the following numeric expressions:

6. $[12 + (4 - 3) \cdot 2] + 12 \div 3$

7. $(16 - 4) \div 3 + 5 \cdot 2 - 3$

Points
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8. **Label the quadrants (I, II, III, IV) and plot the following ordered pairs** in the graph provided:
A(0, 6), B(-5, 4), C(7, 1) and D(3, -9)



Points
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9. Find the first differences for the data set, and write an expression to represent the data pattern:

0	1	2	3	4	5
5	9	13	17	21	25

Ans: _____ **x** + _____
Hint: Coefficient of x and a constant

Points
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